

VERSION WITH MARKINGS TO SHOW CHANGES MADE

5. The method of claim 1 wherein step d) occurs in a multi-hearth roaster with the ability to move a [thin] layer of material about 6-12 inches deep with rotating arms equipped with plow-shaped protrusions.
6. The method of claim 5 wherein the roaster further includes a plurality of decks constructed of heat conductive, non-corrosive metal [with high-heat transfer characteristics], wherein each deck includes floor supports and ceilings formed from thin-shelled reinforced concrete double-wall construction.
12. The [method] fuel of claim 11 further comprising the steps of:
after step d) and before step e)
 - e) extracting tar gases;
 - f) filtering the tar gases; and
 - g) washing the tar gases.
13. The [method] fuel of claim 11 wherein during step d), the roasting temperature is between about 300 and 700 degrees Celsius.
14. The [method] fuel of claim 12 wherein during step d), the carbonaceous

precursor material is roasted for between about 2 hours and about 4 hours.

15. The [method] fuel of claim 11 wherein step d) occurs in a multi-hearth roaster with the ability to move a [thin] layer of material about 6-12 inches deep with rotating arms equipped with plow-shaped protrusions.
16. The [method] fuel of claim 15 wherein the roaster further includes a plurality of decks constructed of heat conductive, non-corrosive metal [with high-heat transfer characteristics], wherein each deck includes floor supports and ceilings formed from thin-shelled reinforced concrete double-wall construction.
17. The [method] fuel of claim 16 wherein the roaster further includes a number of outside walls and wherein each outside wall has at least one port adapted to provide anaerobic access to the roaster.
18. The [method] fuel of claim 12 wherein step f) includes the use of injected steam to assist in the removal of the tar gases.
19. The [method] fuel of claim 11 further comprising the step of after step a) and before step d) adding a carbonate acceptor material to facilitate sulfur removal.

20. The [method] fuel of claim 11 wherein step e) further includes depositing the resultant solid char in an inverted cone-shaped bin and injecting steam thereinto.